EOC – 8610 EXT

Wireless Outdoor Multi-Client Bridge/AP

2.4 GHz / 5.0 GHz	802.11a/b/g	54 Mbps

The Wireless High Power and High Gain Client Bridge/Access Point/ WDS (wireless distribution system) operates seamlessly in the dual band 2.4/5 GHz frequency spectrum supporting the 802.11b (2.4GHz, 11Mbps) and the newer, faster 802.11g (2.4GHz, 54Mbps)/ 802.11a (5GHz, 54Mbps) wireless standards.

ECB-8610 EXT has high transmitted output power and high receivable sensitivity. High output power and high sensitivity can extend range and coverage to reduce the roaming between APs to get more stability wireless connection.

ECB-8610 EXT can collocate with any high gain antenna want for users' environment. To protect your wireless connectivity, ECB-8610 EXT can encrypt all wireless transmissions through 64/128-bit WEP data encryption and also supports WPA2/WPA/802.1x for powerful security authentication. The MAC addresses filter lets you select exactly which stations should have access to your network

Features	Benefits
High Speed Data Rate Up to 54Mbps	Capable of handling heavy data payloads such as MPEG video streaming
High Output Power up to 26 dBm in 11b/g	Spreads the operation distance and reduce the roaming between APs to get more stability wireless connection
External Antenna for 2.4/5GHz	Collocate with any antenna for user's environment
IEEE 802.11b/g Compliant	Fully Interoperable with IEEE 802.11b/IEEE802.11g compliant devices
Point-to-point, Point-to-multipoint Wireless Connectivity	Let users transfer data between two buildings or multiple buildings
WPA2/WPA/ IEEE 802.1x support	Powerful data security
Hide SSID (AP Mode)	Avoids unallowable users sharing bandwidth, increases efficiency of the network
DHCP Client/ Server	Simplifies network administration
MAC address filtering (AP Mode)	Ensures secure network connection
Watertight and Weatherproof	Avoid water invaded and weather corroded
Power-over-Ethernet (IEEE802.3af Compliant)	Flexible Access Point locations and cost savings

****** Subject to change without prior notice***

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2.4 GHz / 5.0 GHz	802.11a/b/g	54 Mbps

Technical Specifications

Data Rates

1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 54 Mbps

Standards

IEEE802.11a/b/g, IEEE802.3, IEEE802.3u, IEEE802.3af, IEEE802.1f, IEEE802.1x

Compatibility

IEEE 802.11g/ IEEE 802.11b

Power Requirements

Active Ethernet (Power over Ethernet) –48 VDC/0.375A

External Unit: Auto sensing 100/240 VAC; 50/60 Hz

Regulation Certifications

FCC Part 15/UL, ETSI 300/328/CE

RF INFORMATION

Frequency Band

802.11a: 5.15~5.25GHz, 5.25~5.35GHz, 5.47~5.725GHz, 5.725~5.825GHz

802.11b/g: U.S., Europe and Japan product covering 2.4 to 2.484 GHz, programmable for different country regulations

Media Access Protocol

Carrier Sense Multiple Access with Collision Avoidance (CSMA/CA)

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Modulation Technology

Orthogonal Frequency Division Multiplexing (OFDM)
DBPSK @ 1Mbps
DQPSK @2Mbps
CCK @ 5.5 & 11Mbps
BPSK @ 6 and 9 Mbps
QPSK @ 12 and 18 Mbps
16-QAM @ 24 and 36 Mbps
64-QAM @ 48 and 54 Mbps

Operating Channels

802.11b/g:
11 for North America, 14 for Japan, 13 for Europe,

802.11a:

US/Canada:12 non-overlapping channel (5.15~5.35GHz, 5.725~5.825GHz)

Europe:19 non-overlapping channel (5.15~5.35GHz, 5.47~5.825GHz)

Japan: 4 non-overlapping channel (5.15~5.25GHz)

China: 5 non-overlapping channel (5.725~5.85GHz)

Receive Sensitivity (Typical)

802.11a:
-88dBm @ 6Mbps,
-70dBm @ 54Mbps

802.11g:
-90 dBm @ 6Mbps,
-74 dBm @ 54Mbp

802.11b:
-95 dBm @ 1Mbps

-90 dBm @ 11Mbps

Available transmit power (Typical)

- 5.15~5.24 GHz(IEEE802.11a)
  17 dBm @6 ~ 24Mbps
  17 dBm @36Mbps
  16 dBm @48Mbps
  15 dBm @54Mbps
- 5.26~5.35GHz(IEEE802.11a)
  20dBm @6 ~ 24Mbps
  18dBm @36Mbps
  16 dBm @48Mbps
  15 dBm @54Mbps
- 5.745~5.85GHz (IEEE802.11a)
  18dBm @6 ~ 24Mbps
  16dBm @36Mbps
  14 dBm @48Mbps
  13 dBm @54Mbps
- 2.412~2.472G(IEEE802.11g)
  up to 26dBm @6 ~ 24Mbps
  23dBm @36Mbps
  22 dBm @48Mbps
  21 dBm @54Mbps
- 2.412~2.472G(IEEE802.11b)
  up to 26 dBm. @1, 2, 5.5 and 11Mbps

RF Connector

SMA (Fr) Type for **2.4/5GHz**

NETWORKING

Topology

Ad-Hoc, Infrastructure

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